

KAKABADZE, V. M.

USSR/ Chemistry Physical chemistry

Card : 1/1

Authors : Kakabadze, V. M., and Chachanidze, G. D.

Title : About certain possible reactions in the barium carbonate - silica system

Periodical : Zhur. fiz. khim. 28, Ed. 6, 1013 - 1016, June 1954

Abstract : Thermodynamic investigations were conducted to determine what reactions may take place in the BaCO_3 - SiO_2 system and how these reactions conform with the experimental data available in literature and with thermodynamic data for other analogous systems. The results obtained are positively approximated because the concrete reaction process in solid phase depends also upon the non-thermodynamic factors, i.e., rate of diffusion of individual ions in crystalline lattices and upon the conditions of crystallization. Thirteen USSR references. Tables.

Institution : Acad. of Sc. Georg-SSR, Metal and Mining Institute and the S. M. Kirov Polytechnicum, Tbilisi

Submitted : July 3, 1953

KAKABADZE, V. M.

USSR

New method for preparing sodium hydroxide. V. M. Kakabadze and T. A. Ivanova. *Doklady Akad. Nauk S.S.R.* #94, 733-5 (1954).—A new method is described for the prepn. of NaOH by using intractable (Na₂S) in soln. as the starting material. The desulfurizing agent is a powdered peroxide ore containg a high percentage of MnO₂. The optimum temp. was found experimentally to be 18-25°. The most favorable molar ratio of Na₂S:MnO₂ was 1:1.5. The most favorable concn. for the Na₂S soln. was determined as 5-15.5%. The final product is obtained in a concn. of 11-12% g./l. and is satisfactory for most ordinary requirements. J. Rovtar Lengel

USSR/Chemical Technology -- Chemical Products and Their Application. Soda Industry, I-4

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1393

Author: Kakabadze, V. M., and Ivanova, T. A.

Institution: Georgian Polytechnical Institute

Title: Production of Caustic Soda by the Reaction of Sodium Sulfide with Manganese Ores and Industrial Wastes (Manganses Process)

Original Periodical: Tr. Gruz. politekhn. in-ta, 1955, No 5 (40), 30-41 (Georgian summary)

Abstract: The possibility of replacing expensive peroxide ores with low-cost ores and industrial wastes has been investigated. Among the substances which were tested are the following: black "bel'ta," [mud?] red "bel'ta," manganese carbonate ore, anode slime from one of the operating plants, and manganese slime, a waste product of the Chiatur manganese industry. It has been established that manganese carbonate ore has a very low sulfur removing ability. Red bel'ta and black bel'ta show a much greater activity (90 and 92%,

Card 1/2

KAKA BADZE V. M.

Rapid method for determining barium and zinc in barium zinicate. V. M. Kaka Badze and T. P. Chashashvili (S. S. Kirov Polytechnic Inst., Tbilisi), Sovetskaya Khimiya, No. 1, Gruzia, S.S.R., No. 1, 25-9 (1953) (in Russian).
the sample (10 ml. of soln.) to 40-50 ml., treat with 2 drops phenolphthalein, heat to 23-40°, and titrate with 0.5N HCl. All Zn ppts. at the end point as $Zn(OH)_2$; heat the sample to 50-60°, treat with methyl red, and titrate again with HCl to an orange end point to obtain the Zn content. Alternately the methyl red titration is run first, then the mixt. is dild. with H_2O to 200 ml., acidified with 1 ml. HCl, treated with 1-2 g. $NiCl_2$, heated to 70°, and titrated with ferricyanide with uranyl nitroso as exterior indicator; the vol. of the ferricyanide gives the num. of Zn, and reacalc. from the 1st titration gives the Ba content. D. M. Ermakoff

✓ KAKABADZE V.M.

The manganese method of barium hydroxide production.
V. M. Kakabadze and P. I. Gugnidi. Dzhidzy A. L. S.
Nauk SSSR 105: 1033-0 (1956).—A no. of possible Ba(OH)₂ uses are foreseen, if it can be obtained sufficiently pure. The method recommended is based on the reaction
 $2Ba(OH)XSH + 2MnO_2 \rightarrow 2Ba(OH)_2 + MnS + S$, the probability of which was confirmed by thermodynamic computations. The use of an excess of MnO₂ over the theoretical amt. was studied. The following advantages are listed for the process: simplicity of equipment (particularly in the already existing lithopone plants) and of manipulations; the purity of the product; and the by-product value. W. M. Sternberg

KAKABADZE, V. M.

USSR /Chemical Technology. Chemical Products
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31492

Author : Kakabadze V. M., Ivanova T. A.

Inst : Academy of Sciences Georgian SSR

Title : Manganese Procedure for the Preparation of
Water Glass from Sodium Sulfide

Orig Pub: Soobshch. AN GruzSSR, 1956, 17, No 3, 205-313

Abstract: Description of a new procedure of obtaining water
glass from Na-sulfide and diatomite on the basis
of natural mirabilite. By means of manganese
peroxide ore or of Mn-sludge the process of de-
sulfurization of Na sulfide is effected with

Card 1/2

KAKABADZE, V.M.

KAKABADZE, V.M.; KAKABADZE, I.L.

Absorption of nitrose gases by dry absorbents with simultaneous
production of complex fertilizers. Soob. AN Gruz. SSR 18 no.5:
549-556 My '57. (MLRA 10:9)

1. Gruzinskiy politekhnicheskiy institut im. S.M. Kirova, Tbilisi.
Predstavлено академиком R.I. Agladze,
(Nitrose) (Absorption) (Fertilizers and manures)

SOV/68-59-5-14/25

AUTHOR: Kakabadze, V.M., Doctor of Technical Sciences, and
Sikharulidze, N.G.

TITLE: On the Problem of Decreasing the Consumption of Calcine Soda in the Arsenic Soda Method of Purification of Industrial Gases from Hydrogen Sulphide (K voprosu snizheniya raskhoda kal'tsinirovannoy sody pri mysh'yakovo-sodovom sposobe ochistki promyshlennykh gazov ot serovodoroda)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 39-42 (USSR)

ABSTRACT: The consumption of calcined soda takes place during the regeneration of the absorbing solution due to the formation of hyposulphite and thiocyanide. Therefore, by decreasing the formation of the above two compounds, the consumption of soda can be reduced. During studies of the solubility of arsenic trisulphide in alkali solutions the authors found that sodium sulphide is the best solvent (Table 1) and when the latter is used as a solvent the ratio of Na : As can be decreased to 0.98 without the precipitation of arsenic (while this ratio for the industrial absorbing solution equals 1.8). The Card 1/3 influence of the Na:As ratio on the formation of

SOV/68-59-5-14/25

On the Problem of Decreasing the Consumption of Calcine Soda in the Arsenic Method of Purification of Industrial Gases from Hydrogen Sulphide

hyposulphite was investigated. It was found that the relationship can be expressed by an equation $K = ae^{bc}$ (Fig 1), where K = velocity of formation of hyposulphite, g/l/hr 10^{-3} ; e = base of natural logarithms; c = ratio of Na:S; and a and b = constants. In view of the above, by using sodium sulphide instead of soda a decrease in the consumption of alkali can be obtained. Since sodium sulphide is more expensive than soda, the authors tested a soda solution saturated with hydrogen sulphide by passing raw coke oven gas. The results of the study of the saturation process are shown in Table 2. It was found that 90% of the initially absorbed cyanide is blown back into the gas and that about 62% saturation of H_2S can be obtained. The use of saturated soda solution for maintaining pH of arsenic absorbing solution was tested on the Zakavkazskiy Coking Plant. The diagram of the plant used for saturation is shown in Fig 3 and the influence of using saturated soda solution

Card 2/3

SOV/68-59-5-14/25

On the Problem of Decreasing the Consumption of Calcine Soda in the Arsenic Soda Method of Purification of Industrial Gases from Hydrogen Sulphide

on the consumption of calcined soda and arsenic in Table 3. The results obtained indicated that the consumption of soda decreased by 24% without any increase Card 3/3 in the consumption of arsenic.

There are 3 figures, 3 tables and 3 Soviet references.

ASSOCIATION: Gruzinskiy politekhnicheskiy institut
(Georgian polytechnical institute)

SOV/68-59-6-9/25

AUTHORS: Kakabadze, V.M. Doctor of Technical Sciences,
Sikharulidze, N.G., and Cholokava, N.K.

TITLE: On the Problem of Establishing the Activity of a
Soda-Arsenical Solution for Sulphur Purification (K
voprosu ustanovleniya aktivnosti poglotitel'nogo
rastvora mysh'yakovo-sodovoy seroochistki)

PERIODICAL: Koks i Khimiya, 1959 Nr 6, pp 35-38 (USSR)

ABSTRACT: The present method of the determination of the conventional activity of soda-arsenical absorption solution shows no relationship between the activity determined and the degree of purification of gas from H₂S obtained. The cause of this discrepancy is as follows: on determining the activity, oxygen containing arsenical compounds precipitated by treatment of the analysed solution with the magnesia mixture are deducted from the residual arsenic. Meanwhile the treatment removes compounds of the type Na₃HAs₂S₄O₃ which are the most active in the absorption of hydrogen sulphide. The activity of the absorption solution can be also evaluated by ΔpH (difference in pH before and after regeneration of the solution). The authors proposed the following

Card 1/2

SOV/68-59-6-9/25

On the Problem of Establishing the Activity of a Soda-Arsenical Solution for Sulphur Purification

formula for the determination of activity:

$$a = \frac{\Delta pH (As_2O_3)''}{(As_2O_3)'}. 100\%$$

where a = activity, $(As_2O_3)'$ = residual arsenic, g/l; $(As_2O_3)''$ = arsenical compounds free from oxygen, g/l. The formula was tested at the Zelenogradsky Metallurgical Works and validity was confirmed. A linear relationship between the activity and percent desulphurization was obtained (Fig 1). In order to simplify continuous observation of the process of purification of gas an approximate method of determining the activity of absorption solution based on the ratio air/ As_2O_3 is proposed (Table 2); the optimum value of the latter lies within a range of 0.16 to 0.19. There are 2 figures and 2 tables.

ASSOCIATION: Gruzinskiy politekhnicheskiy institut
(Georgian Polytechnical Institute)

KAKABADZE, V.M.; IVANOVA, T.A.

Production of caustic soda and blanc fixe from barite and mirabilite. Soob. AN Gruz. SSR 23 no.4:401-408 O '59. (MIRA 13:5)

1. Gruzinskiy politekhnicheskiy institut imeni V.I.Lenina, Tbilisi.
Predstavлено академиком R.I. Agladze.
(Sodium hydroxide) (Barium sulfate)

KAKABADZE, V.M.; SIKHARULIDZE, N.G.

The establishment of the interrelation between the individual factors of a normal technological regime in the arsenic-soda process of sulfur removal. Koks i khim. no.11:43-45 '60. (MKhM 13:11)

1. Gruzinskiy politekhnicheskiy institut.
(Coke-oven gas) (Hydrogen sulfide)

KAKABADZE, V.M.; PANTSULAYA, T.V.

On roasting manganese sulfide. Zhur. VKHO 5 no.4:471 '60.
(MIRA 13:12)

1. Gruzinskiy politekhnicheskiy institut imeni S.M.Kirova.
(Manganese sulfide)

KAKABADZE, V.M.; CHAGUNAVA, V.T.; KORDZAKHIYA, N.H.

Removing an admixture of oxygen from gases by using a complex
oxide ore. Soob.AN Gruz.SSR 24 no.4:401-406 Ap '60.
(MIRA 13:7)

1. Gruzinskiy politekhnicheskiy institut im. V.I.Lenina. Pred-
stavлено академиком R.I.Agladze.
(Gases--Purification)
(Manganese oxide)

KAKABADZE, V.M.; KORDZAKHIYA, N.M.

Oxygen removal from gases by means of various manganese containing ores. Trudy GPI [Gruz.] no. 5:73-83 '62.

(MIRA 17:10)

KAKABADZE, V.M.; CHACHANIDZE, I.P.

Activity of zinc oxide in the desulfurization process. Tr.²
GPI [Gruz.] no.5:67-72 '62. (MIRA 17:10)

KAKABADZE, V.M.; IVANOVA, T.A.

Combined production of barium sulfate caustic soda and sodium sulfide. Trudy GPI [Gruz.] no.5:85-88 '62.

(MIRA 17:10)

KAKABIDZE, V.M.; NIKOLAIASHVILI, Z.G.; M-IVENIYERADZE, N.G.

Production of magnesium oxide by carbonization of an aqueous suspension of serpentinite. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 4:53-58 '63. (MIRA 17:5)

KAKABADZE, V.M.; CHENGURIANISHVILI, M.G.; VOLKOV, A.D.

Preparation of sulfur dioxide by the thermal decomposition
of natural calcium sulfate. Trudy Inst. prikl. khim. i
elektrokhim. AN Gruz. SSR 4:121-129 '63. (MIRA 17:5)

NIKOLAYSHVILI, Z.G.; KAKABADZE, V.M.; MSHVENIYERADZE, N.G.

Production of a new fertilizer based on magnesium nitrate
and urea. Soob. AN Gruz. SSR 33 no. 2:247-254 F '64.
(MIRA 17:9)

DANGADZE, N.D.; KAKABADZE, V.M.

Effect of the rate of coking on the coking capacity and caking
ability of Georgian coals. Soob. AN Gruz. SSR 36 no.1:93-99
0 '64. (MIRA 18:3)

1. Gruzinskiy politekhnicheskiy institut imeni Lenina. Submitted
January 15, 1964.

DANGADZE, N.D.; KAKABADZE, V.M.

Effect of the compacting of coal charges on the coking capacity. Sop.
AN Gruz. SSR 37 no.3;603-610 Mr '65. (MIRA 18:5)

1. Gruzinskiy politekhnicheskiy institut imeni Lenina. Submitted
November 19, 1964.

KAKABARZE, V.M.; NIKOLAYSHVILI, Z.G.; MSHVENIYERADZE, N.G.

Magnesium-containing complex fertilizers. Dokl. AN SSSR 155
no.1:183-186 Mr '64. (MIRA 17:4)

1. Gruzinskiy politekhnicheskiy institut im. V.I.Lenina i Institut
prikladnoy khimii elektrokhimii AN GruzSSR.

KAKABADZE, V.M.; NIKOLAYSHVILI, Z.G.; MSHVENIYERADZE, N.G.; BEREZIANI, L.B.

Physicochemical analysis of the products of interaction between magnesium nitrate and urea. Dokl. AN SSSR 161 no.5:1156-1157 Ap '65. (MIRA 18:5)

1. Gruzinskiy politekhnicheskiy institut im. V.I.Lenina. Submitted
October 14, 1964.

KAKABADZE, V.S.

Development and location of the building materials industry in the
in the Lower Kartlia. Soob. AN Gruz. SSR 17 no.7:623-628 '56 (MIRA 9:11)

1. Akademiya nauk Gruzinskoy SSR, Institut geografii imeni Vakhushti,
Tbilisi. Predstavлено академиком А.Н. Дешавакхишвили.
(Kartlia--Building materials industry)

KAKABADZE, V. S.

Development and distribution of industry in the Adzhar
A.S.S.R. Trudy Inst. geog. AN Gruz. SSR 19:87-112 "62.
(MIRA 16:1)

(Adzharistan—Industries)

KAKABADZE, V.S.

Distribution and development of Racha-Lechkhumi industry.
Trudy Inst. geog. AN Gruz. SSR 15:117-138 '61.
(MIRA 16:11)

KAKABADZE, V.S.

Development and distribution of the industry of upper
Imeretiya. Trudy Inst. geog. AN Gruz. SSR 11:151-168 '59.
(MIRA 16:11)

KAKABADZI, V.Ch.; SHCRIN, S.N.

High-temperature conversion of natural gas in a reactor with
twisted streams. Soob. AN Gruz. SSR 38 no.2;329-336 My '65.
(MIRA 18:9)

1. Moskovskiy institut khimicheskogo mashinostroyeniya
Ministerstva vysshego i srednego spetsial'nogo obrazovaniya
RSFSR. Submitted December 2, 1964.

KAKABAYEV, A.; TAGANOV, K.

Duration of sunshine in individual regions of Turkmenistan.
Trudy fiz.-tekhn. inst. AN Turk. SSR 8:49-56 '62.
(MIRA 15:11)
(Turkmenistan—Sunshine)

BRDLIK, P.M.; KAKABAYEV, A.

Experimental investigation of the condensation of inside-coil
steam pipes. Inzh.-fiz.zhur. 6 no.10:104-108 O '63. (MIRA 16:11)

1. Institut stroitel'noy fiziki, Akademii stroitel'stva i arkhitektury SSSR, Moskva.

AMINOVA, R.Kh., kand. ist. nauk; TETENEVA, I.G., kand. ist. nauk;
ALIMOV, I.A.; DMITRIYEV, G.L.; DZHAMALOV, O.B., doktor
ekon. nauk, redaktor ; DZHURAYEVA, T., kand. ist. nauk,
red.; ATFENYUK, S.Ya., red.; DANILOV, V.P., glav. red.;
BELOV, G.A., red.; GRIGOR'YAN, L.L., red.; IBRAGIMOV, Z.I.,
red.; IVNITSKIY, N.A., red.; IL'YASOV, S.I., red.; KAKABAYEV,
S.D., red.; KAMENSKAYA, N.V., red.; KRAYEV, M.A., red.;
~~KUZNETSEV, O.K.~~, red.; MAKHARADZE, N.B., red.; OBICHKIN, G.D.,
red.; PLESHAKOV, S.T., red.; RADZHABOV, Z.I., red.; SELEZNEV,
M.S., red.; TURSUNBAYEV, A.B., red.; FEDOROV, A.G., red.;
SHEPELEV, T.V., red.; FATLAKH, B., red.; MASHARIPOVA, D.,
red.; BULATOVA, R., red.; GOR'KOVAYA, Z.P., tekhn. red.;
KARABAYEVA, Kh.U., tekhn. red.

[Socialist reorganization of agriculture in Uzbekistan]
Sotsialisticheskoe pereustroistvo sel'skogo khoziaistva v Uz-
bekistane, 1917-1926 gg. Pod red. O.B.Dzhamalova. Tashkent,
Izd-vo Akad. nauk UzSSR. Vol.1. 1962. 792 p. (MIRA 16:5)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut istorii i
arkheologii.
(Uzbekistan--Agriculture)

SEMONSKY, M.; ROCKOVA, E.; ZIKAN, V.; KAKAC, B.; JELINEK, V.

Substances with antineoplastic activity. Pt.5. Coll Cs Chem
28 no.2:377-396 F '63.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

JANCIK,F.; KAKAC,B.

Determination of 11-(3-dimethylaminopropylidene)-
6,11-dihydrodibenz[b,e]thiepin (Prothiadene). Czech.
farm.13 no.1:3-6 Ja'64

1. Vyskumný ústav pro farmaci a biochemii, Praha.

SA KANAL, LST 11
F. Hoffmann-La Roche & Co.
Basel, Switzerland
September 11

Anticoagulants. XVIII. A study of tautomeric equilibria of effective anticoagulative derivatives of 4-hydroxycoumarin. Eduard Knobloch, Bohumil Kakla, and Frantisek Macha (Pharm. and Biochem."ROKOS" Inst., Prague, Czech.). *Chem. Listy* 46, 416-19 (1952); cf. *Časopis Lékařů Českých* 91, 454 (1952).—On the basis of spectrographic and potentiometric measurements of 4-hydroxycoumarin, chromone, coumarin, bis(4-hydroxy-3-oxo-1,3-dihydro-2H-pyran-3-yl)acetic acid and its H-ester, dicoumarol, and *O*-methyl derivs. of the above compds., an equill. between 4-hydroxycoumarin and 2-hydroxychromone is to be supposed in which the latter structure prevails with the bis-derivs. The anticoagulant effect of the bis-derivs. is attributed to the "chromone" form of fully ionized anions at pH 7-8.

FUCIK, K.; KORISTEK, S.; JANCIK, F.; KAKAC, B.

Anticoagulants. Part 15. Substitution of free hydrogen of the 4-hydroxy-coumarin and its derivatives [in German with summary in Russian]. Sbor. Chekh.khim.rab. 18 no.5:694-709 0 '53. (MLRA 7:6)

1. Nauchno-issledovatel'skiy institut farmatsii i biokhimii, Praga.
(Coumarin) (Hydroxy compounds)

Bijakayi, Z. I., Vasil'ev, B. K., and M. P. Kozel'.
 77 iron boron, *Vzaimnyi chelyabinskii*, Chernobyl'. Chem.-
 istic 17, 1516-9 (1953).—Indium was precipitated from tetra-
 borate solution and $\text{BaCl}_2\text{H}_2\text{O}$ in 73% yield and charac-
 terized as the oxalate, m. 171° (decomposition) (from EtOH)
 pentahydrate, m. 164° (from EtOH). Indium(III) chloro-
 complex (3.88 g.) dissolved in 12 ml. HCl (1:1) was treated at -40° with 10 g.
 we and 1.25 g. NaIO_4 in 5 ml. H_2O , the ppt. filtered after 8
 hrs., dissolved in 10 ml. H_2O , the soln. neutralized with ac-
 etic NaCO_3 and dried, with EtO and C_2H_5 . Brings. of the
 solvent yielded 1.58 g. (37.7%) tetrabutyl, m. $208-4^\circ$
 (from EtOH); $d_4^{25} 1.17$, m. above 300° ; μ (nitrobenzene, m.
 $147-4^\circ$ (from EtOH).

KAKÁČ B. and SICHO V.

Výzkumný Úst. Farmacie a Biochem., Praha. "Stanovení kyseliny pantothenové rozlosovací chromatografii na papíře. Determination of pantothenic acid by paper partition chromatography ČAS. LEK. ČES. 1953, 92/49-50 (1372-1373)

The sample containing 8-15 mg. of pantothenic acid in 5 ml. is hydrolysed with 0.3 ml. of conc. HCl in a boiling water bath for 3 hr. After cooling 1 ml. of a 15% alkaline solution of hydroxylamine, HCl, and 1 ml. of 5 N-NaOH are added. After standing for 5 min. the pH is adjusted to 2.5-3.2 with HCl and the volume made up to 10 ml. With a micropipette 20 μ l. are placed on the paper (Schleicher and Schuell 589 or Whatman 1) and chromatographed with a mixture of n-butanol, acetic acid and water (4:1:5). The spots are detected by spraying with 2% FeCl₃. Violet spots of Rf 0.61 indicate the ferric compound of the hydroxamic acid derivative of hydroxydimethylbutyrolactone, a hydrolysis product of pantothenic acid. Besides this spot a reddish spot of Rf 0.1 due to alanine is visible. The unreacted hydroxylamine appears only after some hours as a spot of Rf 0.28.

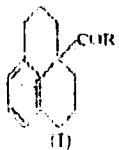
Heyrovský - Prague

SO: Excerpta Medica Section II, Vol. 7, No. 12

CZECH

✓ Structure of some 1-substituted 1,3,3,4-tetrahydro-1H-1,2,4-naphthalen-1-derivatives. Z. J. Vojtěch and A. Kudrát

(Zemský výav. ředitelství, Praha), 64000
48, M. F. 1954; U. S. 3,491,992.—During the alk. hydrolysis of 1-allyl-1-cyano-1,2,3,4-tetrahydronaphthalene, cyclization to the 8-position occurs giving I ($R = NH_2$) and I ($R = O-CH_3$). Ultraviolet and infrared spectra of 1-propyl-1,2,3,4-tetrahydronaphthalene-carboxamide and of I are given.



M. Buddeley

H. A. H. R. B. R. C. A. I. C.

CZECH

✓ Thermal decarboxylation of 1-alkyl- and 1-phenyl-1-tetrahydronaphthalene-1-carboxylic acids. Zdenek J. Vlcek and Bohumil Kral. Czechoslovak Pat. Appl. No. 130,208 (1964). -- Heating 0.6 mmole 1-alkyl-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid mixed with 0.02 mmole CaO in a HfCl₄ bath, dryg. the product, dilg. the liquid with Et₂O and washing it with dil Na₂CO₃ gave the corresponding 1-alkyltetralin. A report [1] of acids were recovered by acidification of the Na₂CO₃ washings. Alkyl groups, % yield, m.p., and n_D²⁰ of the 1-alkylcarboxylic acids are given: Me, 81, 221-4°, 1.5418; Et, 72, 216-1°, 1.5112; Pr, 75, 237-5°, 1.5221; and Bu, 74, 279-3°, 1.5193. Heating 1-(benzyl)-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid (I) (3.5 g.) gave at 243-3° 0.90 mg. PhMe and at 319°, 2.33 g. cl. liquid composed of 0.8 g. mono-alkyl acid, m. 114-15°, and 1.4 g. yellow oil, b.p. 161-163°, there was cut in ultraviolet light, the chromatography of which yielded *naphthalene* (picrate, m. 155-8°), *diene of 1,3-dihydronaphthalene* (II) (2%), b. 219-222°, m. 122-4°, m. 105° 1,4-hydroxynaphthalene (III), m. 214-17° (from 100% sodium compd. with Hg(OAc)₂, m. 131-2°), and 1,3-dihydroxynaphthalene (IV) (220 mg.), b. 213-5°, n_D²⁰ 1.3707, d₄₂²⁰ 1.13-0.10. Then a J decompr. of 3.5 g. I with 0.1 g. CuO gave 800 mg. PhMe, and at 240° 2.32 g. cl. oil containing 70 mg. II, m. 114-16°, 0.4 g. 1,4-oxaphthalane, and 337 mg. IV, b. 210-11°, n_D²⁰ 1.5800. No III was left (cf. M. S. Johnson).

KAKA - *Bohumil Kekc*

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and
Their Application, Part 3. - Drugs, Vitamins, An-
tibiotics.

H-17

Abs Jour : Ref Zhur - Khim., No 14, 1958, No 47812

Author : Zdenek Fadr, Bohumil Kekc.

Inst : -

Title : Stability Study of Sodium Salt of Adenosinetriphosphoric
Acid.

Orig Pub : Ceskosl. farmac., 1955, 4, No.2, 83 - 84.

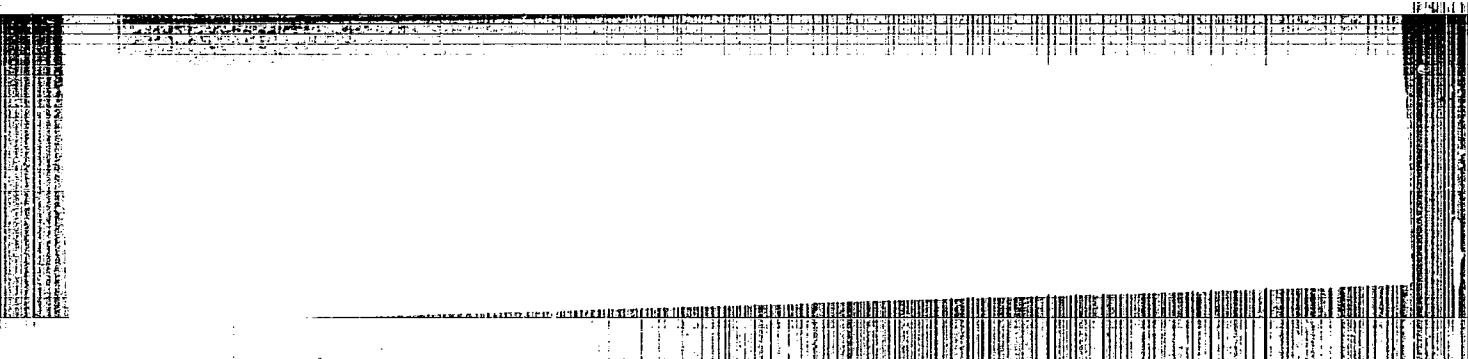
Abstract : No abstract.

12

Card 1/1

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4



APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4

KAKAE, Daimon

C7 E CH

✓ Cyclization of 1-hexyl-1,3,6-triahydrophthalanthene-4-carboxylic acids. Zdenek L. Cech and Bohumil Kubálek. Collection Czechoslov. Chem. Commun. 20, 371 (1955). B. J. S.

(German). See C.A. 49, 51174.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

KAKAC, B.

CZECH
Cyclization of 1-benzyl-1,2,3,4-tetrahydrophthalimide and its
carboxylic acid. Zdenek L. Kralick and Bohumil Kruger. Chem. Ztg.
(Vienna), 1969, 93, 669. (Bulgarian translation) (Chem. Abstr.)
49, 82-85 (1965).—Cyclization of the chloroform (I) or 1-(4-nitro)¹⁴
1,2,3,4-tetrahydronaphthalene-1-carboxylic acid (II) gave
with various condensing agents and under various conditions
spiro-1-(1,2,3,4-tetrahydronaphthalene)-2'-indole-1'-one (III),
spiro-1-(1,2,3,4-tetrahydronaphthalene)-2'-indole (IV), 2,1-
benzo-9,10-dihydrophenanthrione (V), 1-furyl-3,4-dihydro-
naphthalene (VI), 1-benzyl-1,1,4-tetrahydronaphthalene (VII),
and 1-benzylphthalide (VIII). Dehydrogenation of V gave
2,3-benzophenanthrone (IX). VI and 4-benzyl-1,2-dihydronaph-
thalene (X), were prep'd. as reference compds. Refluxing
(90.6% I) in 170-20°, with 0.3 g. SOCl₂ 40 min., gave 10 g.
15.6 g. (II, m. 116°, with 0.3 g. AlCl₃, 10 ml. petr. ether,
petr. ether (B. 75-95°), to 4 g. AlCl₃, 10 ml. petr. ether,
at 20-43° during 45 min., and refluxing 40 min., and de-
compg. the mixt. with 10 ml. H₂O and 8 ml. HCl gave 2.71 g.
neutral high mol. wt. oil and, from aq. layer, 0.34 g. (14%)
II. Adding 7.1 g. I in 10 ml. benzene at 14-20° to 6 g. AlCl₃
in 20 ml. hexane, refluxing the mixt. 20 min., and decompg.
with 25 ml. 1:2 HCl gave 2.25 g. (33%) II and 8.4 g. of an
oil the chromatography of which yielded 1.8 g. V, m. 116°
(from petr. ether and from EtOH); phazole, m. 136° (from
EtOH). Heating 0.1 g. V 32 hrs. with 70 mg. Se at 200-600°
gave 0.2 mg. IX, m. 157.5-8.3° (from 80% EtOH); spiro-
m. 142-3° (from xylene). Treating 10 g. II in 75 ml. C₆H₆
under ice-cooling with 8.4 g. AlCl₃, refluxing the mixt. 10
min., and decompg. with 30 g. ice and 10 ml. HCl yielded

INDAMIN 3'

1.8 g. (16%) I and 11.6 g. neutral oil (6.6% b.p. 100°, n_D²⁰ 1.5820, 0.3 g. VIII, m. 109° (from Ex. III), 0.4 g. VI, m. 133°, n_D²⁰ 1.5880, 0.3 g. VII, m. 101° (from Ex. III), m. 108°, 1.11 g. VI, and 2.0 g. III, m. 114° (from Ex. III). Reduction of 300 mg. III with 2 ml. amalgamated Zn and 6 ml. HCl, and 8 ml. PhMe (24 hrs.) gave IV. 12.5 ml. (1.5 ml. in 1 ml. hexane) of I dissolved in 60 ml. hexane with 10 g. Et₃N and 70 ml. HCl gave 7.25 g. 43% II, and 0.76 g. neutral oil which on chromatography yielded 1.23 g. VII, b.p. no. 119°, n_D²⁰ 1.5912, 0.51 g. VI, b.p. 122°, n_D²⁰ 1.6200, 2.4 g. III, and 2.32 g. IX. Cyclization of 8.3 g. I dissolved in 96 ml. C₆H₆ with 8.5 g. SeO₂ in 10 ml. C₆H₆ at 8-20°, and decomp. of the mixt. with 20 g. ice and 10 ml. HCl gave 0.40 g. (4%) III and 7.45 g. of an oil from which were isolated 1.48 g. VIII, 1.83 g. VII, and 1.16 g. VI. A refluxing sample of VII b.p. 139°, n_D²⁰ 1.5934. Hydrogenation of 1-benzyl-1,2-dihydro-4(3H)-naphthalene gave the 4-H compd. (XI), (75.5%), b.p. 185°. XI (5 g.) and 5 g. Zn (3% wet)

heated 60 min. at 90°, the mixt. ext'd. with 30 ml. hexane, and 3.0 g. (26%) of the residual oil chlorinated to give 2.85 g. X, b.p. 127°, n_D²⁰ 1.6058. Adding 3.6 g. tetralone, b.p. 108-12°, n_D²⁰ 1.5731; dissolved in 10 ml. Et₃O, to the Grignard reagent prepd. from 1.05 g. Mg and PhCH₂Cl in 60 ml. Et₂O, refluxing the mixt. 1 hr., and decomposing the mixt. with 10 g. K₂Cr₂O₇ in 60 ml. H₂O, yielded 8.28 g. 1-benzyl-1,2,3,4-tetrahydro-2-naphthol (XII) b.p. 167°, n_D²⁰ 1.5974. Treatment of 4 g. XII with 4 g. ZnCl₂ (absorbent), and distn. yielded 3.35 g. (61%) VII, b.p. 127°, n_D²⁰ 1.6201. Infrared spectra of I, III, IV, VI, VII, VIII, X, and XII, and ultraviolet spectra of I, III, IV, VI, VII, VIII, X, and XII are given. M. L. undeky

KAKÁČ, BOHUMÍL

*V*eratrum alkaloide. III. Components of veratriine.
Zdenek I. Vodicka, Karel Marek, and Bohumil Kubec
(Vichtomovice u. České Budějovice)

10. The following table gives the number of hours worked by each of the 1000 workers.

and 44, and the following table gives the different types of acid found in each of the 100 samples.

M. H. HAN

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

KAKAC, Bohumil

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and
Their Application. Medicinals. Vitamins,
Antibiotics

J-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1958, 5591

Author : Kakac Bohumil, Vejdelek Zdendk J.

Inst : Not given

Title : Determination of Ethianacine

Orig Pub : Ceskosl, farmec., 1956, 5, No 3, 140-146

Abstract : On action of nicotinoyl chloride on ethylene glycol there are formed, in addition to the main product -- ethianacine, beta-hydroxyethyl nicotinate (I) -- also the dinicotinate of ethylene glycol (II) and nicotinic acid (III). Since II renders unstable the solutions of I used for injections, a polarographic method was developed for determining I in the presence of II, and also of III. After separation of I from III and II, on the basis of different solubility in alkaline medium, II can also be determined polarographically with an accuracy of up to 0.1%; III is determined volumetrically.

~~Card 17~~

Bonansil, Kakac, B

- * Category: Czechoslovakia/Analytical Chemistry - Analysis of organic substances. G-3

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31064

Author : Smid Milos, Kakac Bohumil, Padr Zdenek

Inst : not given

Title : Tetrazolium Salts. I. Determination of 2-Methyl-1,4-Naphthoquinone.

Orig Pub: Ceskosl. farmac., 1956, 5, No 4, 212-215

Abstract: Cleavage products formed on action of alkali on 2-methyl-1,4-naphthoquinone (I) reduce 2,3,5-triphenyl-tetrazolium chloride (II) or 3,3'-dianisol-bis-4,4'-(3,5-diphenyl)-tetrazolium chloride (III) to colored formazanes. Intensity of the coloration of the formazanes that are formed depends on the concentration of I in the initial solution. This is utilized for a photometric determination of I in the injection solutions of K-Spofa vitamin (IV). The plot the calibration curves, there are consecutively poured together alcohol solutions of I (10 ml, 1-10 γ/ml),

Card : 1/2

-9-

KAKAC, Bohumil

Czechoslovakia /Chemical Technology. Chemical Products I-21
and Their Application

Medicinals. Vitamins. Antibiotics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32307

Author : Kakac Bohumil, Roubal Zdenek

Title : Polarographic Determination of 7-Iodo-8-
Hydroxyquinoline-5-Sulfonate of Bismuth
(Bi-Yellow)

Orig Pub: Ceskosl. farmac., 1956, 5, No 5, 271-273

Abstract: The method for the determination of "Bi-Yellow"
is based on a polarographic reduction of 7-iodo-
8-hydroxyquinoline-sulfonic acid and the tar-
trate complex of bismuth in the buffer solution
of MacIlvaine (pH 5). In comparison with the
gravimetric and volumetric determinations the

Card 1/2

Czechoslovakia /Chemical Technology. Chemical Products I-21
and Their Application

Medicinals. Vitamins. Antibiotics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32307

the polarographic method has that advantage that it permits a simultaneous and sufficiently accurate determination of both component parts of the preparation. Comparative data on determination of both component parts of the preparation. Comparative data on determination of the preparation by different methods are included.

Card 2/2

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

KAKAC, B.

CZECHOSLOVAKIA / Analytic Chemistry. General Topics.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60556.

Author : V - Jiri Korbl, Bohumil Kakac; VI - Jiri Korbl,
Rudolf Pribil; VII - Jiri Korbl, Eduard Kraus,
Rudolf Pribil.

Inst :

Title :

Metallocromic Indicators. V. Properties of Methyl-
thymol Blue as of Acid-Base Indicator. VI. Analogues
of o-Cresolphthalein Complexon. VII Glycinethymol
Blue.

Orig Pub: Chem. listy, 1957, 51, No 9, 1680-1685; No 10, 1804-
1808; 1809-1813.

Abstract: The behavior of methylthymol blue (I, 3,3'-bis-N,

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920019-4"
Card 1/11

CZECHOSLOVAKIA / Analytic Chemistry. General Topics.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60556.

Abstract: . 10^{-5} M solution of I with $595 \text{ m} \mu$ depending on pH; 2 more changes of I color in the alkaline region from light-blue into grayish yellow and, at least, into dark-blue correspond to the two latter pK values. The adduction of three protons takes place in strongly acid solutions of I; the adduction to quinone O accompanied with the destruction of the H bridge is revealed by the change of I color from yellow into red. This transition is shifted to the more acid region as compared with II. The acid-base properties of I may be explained simply assuming that the forms of sulfonephthalein dyes, the electron structure of which is more symmetrical, are colored more intensively.

VI. The acid-alkaline and metallocromic proper-

Card 4/11

CZECHOSLOVAKIA / Analytic Chemistry. General Topics.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60556.

Abstract: already at pH = 7 to 8; it becomes more intensive with the rise of pH in consequence of the formation of colored ions. The color intensity of individual forms depends on the fact, whether a symmetrical, or an asymmetrical resonance system is being produced, at which occasion it is necessary to take into consideration the hydrogen bridges between the phenol O-s and N atoms. The alkaline form of III is purple, that of IV is blue, and that of V is violet. A qualitative color change from blue into reddish-gray is observed in IV near pH = 12. The color of III becomes weaker at pH = 13 to 14 analogously to the initial indicator. The least and, consequently, the most favorable intensity rise of the coloration proper together with pH is observed at IV. III, IV and V possess

Card 6/11

62

CZECHOSLOVAKIA / Analytic Chemistry. General Topics. E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60556.

Abstract: VI are lower as compared with I or other similar indicators (Ni^{2+} , Fe^{3+} and Pd^{2+} produce complexes). Starting from pH = 3. VI produces complexes of dark blue color with numerous cations at various pH magnitudes. At the titration with ethylenedinitrilotetraacetic acid (VII) solution, the color transitions are clear in the case of Cu^{2+} , Zn^{2+} , Pb^{2+} and Hg^{2+} , and they are lengthy in the case of Pd^{2+} , Ni^{2+} , Co^{2+} and Fe^{3+} . The application of VI is practically important first of all for the direct complexometric determination of Cu^{2+} in an acid medium; VI is suitable for that purpose more than 1-(2-pyridylazo)-2-naphthol or variamine blue B first of all because the Cu complex is well soluble and due to the clear change of color.
Method of work: a corresponding volume of 0.05 M

Card 10/11

64

Country	: CZECHOSLOVAKIA	G
Category	: Organic Chemistry. Natural Substances and	
	Their Synthetic Analogs	
Per. Jour.	: Ref Zhur - Khim., No 5, 1959, No. 15543	
Author	: Weichert, J.; Blaha, L.; <u>Kakac, B.</u>	
Institut.	: -	
Title	: Studies in the Series of Vitamins K and E. VI. Preparation of 2,5,7,8-Tetramethyl-2-(β -Carboxyethyl)-6-Oxochromane and the Product of	
Orig. Pub.	: Chem. listy, 1958, 52, No 4, 722-726	
Abstract	: One of the final products of the exchange of 1-tocopherol-lactone 2-(3-oxy-3-methyl- β -carbo- oxypentyl)-3,5,6-trimethylbenzoquinone (I), is obtained by a method analogous to the process of oxidation of tocopherols to tocopheryl qui- nones - by oxidation of 2,5,7,8-tetramethyl-2- (β -carboxyethyl)-6-oxochromane (II). The pro- duct is identical to the natural one according	
	* Its Oxidation	
Card:	1/5	

a. 91

Country : G
Category :
Obs. Jour : Ref Zhar - Khim., No 5, 1959, No. 15543
Author :
Institut. :
Title :

Orig. Pub. :

Abstract cont'd. : 110-120°, whereupon 7.7 g. of 2,5,7,8-tetra-methyl-2-(β-carboxyethyl)-6-acetoxychromane was obtained, with yield of 60%, m.p. 154° (from CH₃OH), pK 5.80; it can also be obtained by acetylation of II. By boiling 15 g. of the unpurified product in 200 ml. of CH₃OH with 190 ml. of 2 n. methanol solution of KOH for 25 minutes, II is obtained, with yield of 52%, m.p. 173° (from diluted CH₃OH); methyl ether were obtained directly from the acetoxy deri-

Card: 3/5

Card: 4/5 G - 92

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of E-3
Organic Substances.

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27143.

Author : Jancik, F., Kakac, B., Vanicek, V., and Brublov-
ska, M.

Inst : Not given.

Title : The Volumetric and Polarographic Determination of
and Stability Studies on N-Nitroso-N-Methylurea,

Orig Pub: Chem Listy, 52, No 5, 909-914 (1958) (in Czech).

Abstract: Two methods have been developed for the quantitative determination of N-nitroso-N-methylurea (I), an acidimetric method and a polarographic method. When the acidometric method is used, the excess NaOH left after the alkaline hydrolysis of I by the equation $\text{CH}_3\text{N}(\text{NO})\text{CONH}_2 + \text{NaOH} \rightarrow \text{CH}_2\text{N}_2 + \text{NaCNO} + 2\text{H}_2\text{O}$ is titrated. 150-200 mg I is stirred with 25 ml 0.1 N

Card 1/2

87

KA KAC, B.

AUTHORS: Jendík, F., Káček, J. and Vancsek, V.
 TITLE: Determination of Diethylurea in the Presence of Mono-methylamine (Staravet, directly hydrolyzed Semicarbazide)

PERIODICAL: Českéhoř. listy, 1958, Vol. 52, Nr 11, pp 2181 - 2185
 (Czechoslovakia)

ABSTRACT: Diethylurea, which is an important intermediate in the synthesis of caffeine and other purine derivatives, is produced currently by the methylation of urea by methyl-nitroso-diazene. Since monoethylurea is formed in this reaction, since further methylation produces diethylurea, the final product may contain large or small quantities of monoethylurea. The presence of unreacted urea is unlikely. The determination of monoethylurea (II) is of importance in the production process and for the evaluation of the final product. The authors were unable to find a suitable method in the literature. Watt and Chisop (ref 1) described a colorimetric determination of urea on the basis of its

Card 5/7

colour reaction with p-dimethylaminobenzaldehyde. Since this reaction is general for primary amino-groups, mono-methylurea gave this reaction, as was expected, but diethylurea does not react with p-dimethylaminobenzaldehyde. The colorimetric determination on this basis is suitable for a range of concentrations common in diethylurea. The authors state that it is possible to use, for a rapid evaluation of binary mixtures of I and II base, a sharp change in the freezing point which is dependent on the composition. The water content in products of the above method does not usually exceed several hundredths or a tenth of one per cent. It was shown that a small quantity of water results in a considerable lowering of the freezing point, so that it is possible to introduce a correction.

Reagents and Apparatus: Mixture of diethylurea was 102.5% and a mixture of diethylurea and urea was 99.9% pure monoethylurea (95-98%) and purity of 99.5%. Moisture was not detectable by either the Kiecker method. Standard solutions of monoethylurea was prepared by dissolving it in re-distilled water (50 mg in

Card 5/7

10 ml.). Infrared spectrum solution was made by dissolving 100 mg of diethylurea in 10 ml ethanol (10% v/v). Colored concentrated hydrochloric acid (10 ml) containing 0.1 g ferric chloride and a violet filter (Nr 601). The determination was carried out using a Hilger spectrometer with a cell length of 1 cm. The solution was carried out in a test tube about 12 mm in diameter and 1 cm filled with a dark glass stopper. After the freezing point was determined, liquid an out test tube in ca. 1/3 full. A calibrated thermometer (0° - 100°C) immersed in ice bath (ice bath with 7 drops) started into the tube and the temperature was read with one side of a smaller tube. The thermometer is read with one side of a lens and the other side by comparison. The apparatus is based in a glass bulb. Bubbles of the mixture (mono- and diethylurea) are accurately weighed and dissolved in distilled water (100 ml.). Portions of these solutions (10 ml) are pipetted into 25 ml. volumetric flasks and the dilution is 10 ml for the calibration curve preparation. Before and read off the amount from

Card 5/7

Determination of Dimethylurethane in Mixtures of Dimethylurethane and Diaminodiphenylmethane.

The calibration curve is obtained by treating 10 ml. of a mixture of benzene (0.2 ml.) and 25 ml. volumetric flask and adding up to the mark. The yellow colour reaches maximum after 1 min. at 25°C. Maximum absorption is at 414 m μ . (and maximal fluorescence)

Maximum absorption in the same solution at 20°C. is 425 m μ . Reagent solution diluted in a similar manner and compared in a blank in contrast to the solution of water and chloroform, thus authors do not have any chance in the extinction which was dependent on the amount of reagent added over the range 0.2 - 1.0 ml./25 ml. The calibration curve is linear in the range 0.2 - 1.0 ml./25 ml. and then curves slowly.

Determination Based on Freezing Point: About 1-5 g. of the mixture is weighed into the inner tube so that the mercury bulb of the thermometer when placed in position is completely covered by the fused mass. The tube is then placed in the oil bath heated to about 130°C.

Following the melting of the mixture (thermometer in the inner tube will read about 110°C.) the tube is cleaned with cotton wool and the tube with the thermometer is placed in the outer tube. As soon as the thermometer is placed in the inner tube reaches 110°C further fall in temperature is read in 0.5°C steps and timed. The period of slow temperature fall is taken as the freezing point. This normal course is only encountered in mixtures containing 60 - 100% dimethylurethane. In samples with larger amounts of monomethylurethane, the change with time is different. Following the minimum temperature there is a sharp rise or reached following a slow fall. The maximum temperature of freezing point. The minimum is considered to be the freezing point. The qualitative difference between the dimethylurethane can be used to decide whether mono- or di-methylurethane predominates. This can also be confirmed by the addition of standards to the mixture being analyzed. An increase in the freezing point indicates that the predominant component is the same as the added standard. The evaluation of the results is based on the calibration curve of freezing points of mixtures containing C-100S or some and dimethylurethane, respectively.

Cards/7

Cards/7

Reduction of Freezing Point of the Mixtures by Fischer Method: Presence of water facilitates the fractionation of water by the Kr. Fischer method. Determination of water by the Kr. Fischer method allows corrections to be made, so that correct results are obtained.

Discussion: The results show that it is impossible to use both colorimetric and freezing point methods for the determination. It is probable that the standard deviation in the colorimetric method is 1.2%. (Error of 2%) The point of view of some authors and our investigation shows the presence of water, for instance, in mixtures containing compounds with hydroxyl groups reduces the freezing point method. The freezing point method is convenient, from the point of view of apparatus and work involved and it is possible to determine monomethylurethane semiquantitatively and to determine proportions of the two components in mixtures. However, the drawback of the correction which may be necessary if water is present. Probable S.D. of the method = 0.7%. (relative).

The authors state that both methods have proved very convenient during lengthy checks on production.

There are 3 figures, 2 tables and 2 references, 1 of which is German and 1 English.

ASSOCIATION: Vysoký Institut pro farmacií a biologii, Praha
SUBJECTS: February 16, 1955
 This is a complete translation except for tables, figures and references.

COUNTRY	:	Czechoslovakia	G-3
CATEGORY	:		
ABJ, JOUR.	:	RZhKhim, No. 5 1960, No.	17999
AUTHOR	:	Weichert, J., Blaha, L., and Kakac, B.	
INST.	:	Not given	
TITLE	:	Investigation of the Vitamin K and E Group. VI. The Preparation of 2,5,7,8-Tetramethyl-2-(β carboxylethyl)-6-hydroxychromane and Its Oxidation	
CRIG. PUB.	:	Collection Czechoslov Chem Commun, 24, No 5, 1689-1694 (1959)	
ABSTRACT	:	See RZhKhim, 1959, No 5, 15543.	

APP: 1/1 Product. 104

Distr: 4E2c(j)

Volumetric and polarographic determination of 1-methylurea and investigation of its stability. P. Jančík, B. Kákel, V. Vaněk, and M. Vrúblovská. *Vestn. Českoslov. Chem. Komun.* 24, 1781-7 (1979). See C.A. 83, 69204. M. Hudlický

5
1-
May
1

JL

YI

20

ADLEROVA, E.; BLAHA, L.; BOREVICKA, M.; ERNEST, I.; JILEK, J.O.; KAKAC, B.;
NOVAK, L.; RAJSNER, M.; PROTIVA, M.

Synthetic experiments in the group of hypotensive alkaloids. VI.
Some notes on the preparation of alicyclic components in the
synthesis of compounds of the reserpine type. Coll Cz Chem 25 no.1:
221-236 Ja '60. (EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Hypotension)
(Alicyclic compounds) (Reserpine)

BLAHA, L.; WEICHERT, J.; ZVACEK, J.; SMOLIK, S.; KAKAC, B.

Synthetic experiments in the group of hypotensive alkaloids. VII.
Preparation of (+)-deserpidine and (+)-isodeserpidine. Coll Cz
Chem 25 no.1:237-244 Ja '60. (MEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Hypotension) (Deserpidine)
(Isodeserpidine)

NOVAK, L.; JILEK, J. O.; KAKAC, B.; ERNEST, I.; PROTIVA, M.

Synthetic experiments in the group of hypotensive alkaloids. IX. A new method for splitting racemates in the total synthesis of reserpine.
Coll Cs Chem 25 no.8:2196-2206 Ag '60. (EPAI 10:9)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

(Alkaloids) (Hypotension) (Tartaric acid)
(Reserpine)

EXNER, O.; KAKAC, B.

Acyl derivatives of hydroxylamine. V. Acylation of derivatives of hydroxylamine. Coll Cz chem 25 no.10:2530-2539 0 '60,
(EBAL 10:9)

1. Institut de polarographie de l'Academie des sciences tchecoslovaque, Prague et Institut de recherches pharmaceutiques et biochimiques, Prague.

(Acylation) (Hydroxylamine)

HANC, O.; CAPEK, A.; KAKAC, B.

Microbiological transformation of steroids. XV. Transformation of steroid S (Reichstein) by *Absidia orchidis* 310. *Folia microbiol* 6 no.6: 392-397 '61.

1. Research Institute for Pharmacy and Biochemistry, Praha 12.

(HYDROCORTISONE rel epds)

KAKAC, B.; VEJDELEK, Z. J.

Photometric determination of some components of vitamin B complex,
Cesk. farm. 10 no.10:522-540 D '61.

1. Vyskumny ustav pro farmacii a biochemii, Praha.

(VITAMIN B COMPLEX chem) (PHOTOMETRY)

RAJSNER, M.; KAKAC, B.; PROTIVA, M.

Synthetic experiments in the group of hypotensive active alkaloids.
I. Reaction of 3-bromine-5-acetoxy-8-hydroxy-cis 3,4,5,8,9,10-Hexam-
hydro-1-naphthoic-acid lactone with silver(I)-acetate. Coll Cz chem
26 no.1:91-97 Ja '61. (MEAI 10:9)

1. Forschungsinstitut fur Pharmacie und Biochemie, Prag.

(Hypotension) (Alkaloids) (Bromine) (Lactones)
(Silver acetate) (Hexahydronaphthoic acid)
(Hydrides)

PROTIVA, M.; CAPEK, A.; JILEK, O.; KAKAC, B.; TADRA, N.

Synthetic experiments in the group of hypotensive active alkaloids.
XVIII. Microbiologic reduction of lactons of the (+)-5-oxo-8 β -hydroxy-cis-1,4,5,8,9,10-hexahydro-1 β -naphthalic acid. Coll Cs chem
26 no. 6:1537-1541 Je '61.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

(Lactons) (Naphthalic acid)

JILEK, O. J.; KAKAC, B.; PROTIVA, M.

Synthetic experiments in the group of hypotensive active alkaloids.
Part 19: Reduction of (\pm)-5,8-dioxa-cis-1,4,5,9,10-hexahydro-1 β -
naphthoic acid isopropylesters according to Meerwein. Coll Cs Chem 26
no. 9:2229-2237 '61.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

(Alkaloids) (Esters)

terry

CAPEK, A.; HANC, O.; KAKAC, B.; TADRA, M.

Microbial transformation of steroids. XVIII. Dehydrogenation of cortisone in position 1-2. Folia microbiol. 7 no.3:175-180 '62.

1. Research Institute of Pharmacy and Biochemistry, Prague 3,
(STEROIDS metab) (FUNGI metab) (MYCOBACTERIUM metab)

CAPEK, A.; TADRA, M.; KAKAC, B.; ERNEST, I.; FROTTIVA, M.

Microbiological transformation of derivatives of hexahydronaphthalic acid. Folia microbiol. 7 no.4:253-254 '62.

1. Institute of Pharmacy and Biochemistry, Prague 3.
(NAPHTHALENES - metabolism) (LACTONES - metabolism)
(FUNGI - metabolism) (ACTINOMYCSES - metabolism)

- (36)
- French, Collection of Czechoslovakian Scientific Communications, Vol. 27, No. 4, April 1952 (continued)
9. "Separation Methods for Natural Products, Part II. Directed Distillation Separation and Double Viscosimetry," by J. EISENBERG, J. FRIEDL, and J. PROCHAZKA, Research Institute of Organic Chemistry and Technology, Prague; pp. 324-325 (English abstract).
10. "Synthesisation Experiments in the Group of Representative Alkaloids, Part XIII. The Catalysing of the Alkaline Components for the Synthesis of Alkaloids," by Academician S. P. L'vov, Institute of Pharmacy and Biochemistry, M. V. Lomonosov L. N. Gumilyov Research Institute of Pharmacy and Biochemistry, Prague; pp. 333-335.
11. "Synthesisation Experiments in the Group of Representative Alkaloids, Part XIV. On the Synthesis of the Alkaline Components of the Alkaloids of KIRK and the Alkaloids of the Institute of Pharmacy," by Academician S. P. L'vov, Institute of Pharmacy, Prague; pp. 371-373.
12. "Catalytic Synthesis of Cyclospiroveratralid," Part I: Relation to the Cardiac Glycosides, by L. LASKOVSKA, C. BULINA, C. ALBERTA, and J. SUDOL, of the Chemical Institute at the Academy of Sciences of the Czechoslovakia, Prague.
13. "On Proteins, Part I: X-ray Structure Determination by Periodic Polyamide or Chro-mo-protein," by V. KREJCIK, J. KREJCIK, J. TUREK, and J. ZEMAN, of the Institute of Organic Chemistry and Biotechnology, Prague; pp. 380-382 (English abstract).
14. "Catalytic Properties of Alkaloidines Synthesized in Part XI. The Structure of Apyrone and its Derivatives," by J. L. SUDOL, O. BARTON, and D. JELLINE, of the Department of Chemistry, University of Colorado, Boulder, Institute of the National Research Council of Canada, Ottawa; pp. 389-391.
15. "Racemic Acid Compounds and their Analogs, Part III. Synthetic Derivatives of Aspartic Acid (2-Amino-1-hydroxy) Urethane and their Derivatives," by J. S. TROJAK and P. KALINA, of the Institute of Organic Chemistry and Biotechnology, Prague; pp. 393-395 (English abstract).
16. "A Note on the Enzymatic Action of the Antibiotic Salicylanilide on Proteins," by J. S. TROJAK, J. KREJCIK, and J. BENEŠ, of the Institute of Organic Chemistry and Biotechnology, Prague; pp. 397-399 (English abstract).
17. "Notes on the Preparation of Indium Phthalocyanine," by J. KREJCIK, of the Chemical Institute of Technology, Prague; pp. 401-403.

SEMONSKY, M.; ROCKOVA, E.; CERNY, A.; KAKAC, B.; MACEK, K.

Substances with antineoplastic effect. Part 4 : Some γ -aryl- α , β -substituted $\Delta^{\alpha\beta}$ -crotonlactones. Coll Cs Chem 27 no.8:1939-1954 Ag '62.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

KAKAC, B.; HUDLICKY, M.

Quantitative determination of fluothane and its isomer by means
of infrared spectrophotometry. Coll Cz Chem 27 no.11:2616-2620
N 62.

1. Research Institute for Pharmacy and Biochemistry, Prague.

KAKÁČ, B; HUDLICKÝ, M.

Czechoslovakia

Research Institute for Pharmacy and Biochemistry ---
Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 11, 1962, pp 2616-2619

"Quantitative Determination of Fluothane and its Isomer by Means of Infrared Spectrophotometry."

SEMONSKY, M.; ROCKOWA, E.; ZIKAN, V.; KAKAC, B.; JELINEK, V.

OSCAR ✓

Research Institute for Pharmacy and Biochemistry, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, 1963,
pp 377-396

"Substances with Antineoplastic Effect V. Solvolysis of Some γ -Aryl- α, β -Dihalogen- $\Delta^{\alpha\beta}$ -Orotonolactones"

(4)

CZECHOSLOVAKIA

SXNER, O; KAKAC, B.

1. Polarographic Institute of the Czechoslovak Academy of Sciences, Prague; 2. Research Institute for Pharmacy and Biochemistry, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, 1963, pp 1656-1662

"Acyl Derivatives of Hydroxylamine. VIII. A Spectroscopic Study of Tautomerism of Hydroxamic Acids."

KAKAC, B.

SEMONSKY, M.; CERNY, A.; KAKAC, B.; SUBRT, V.

Substances with antineoplastic activity. Pt. 6. Coll Cz
Chem 28 no. 12:3278-3289 D '63.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

ERNEST, I.; KAKAC, B.; PROTIVA, M.

Synthetic experiments in the group of active hypotensive alkaloids. Pt. 31. Coll Cz Chem 29 no. 1:251-265 Ja'64.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

ERNEST, L.; KUKAC, B.

Synthetic tests on the group of blood pressure reducing
alkaloïds. Pt.34. Chem Cz Chem 29 no.11:2663-2680 N '64.

I. Forschungsinstitut für Pharmazie und Biochemie, Prague.

CATTY, A.; KELAC, D.

5. "Bogus Organization, Part 3, "Mao Tse-tung," 12/10/58
242-210 S-1 65,

1. Research Institute of Finance and Economic Planning, Prague 9.
Submitted December 26, 1954.

KAKAC, B.; HUDLICKY, M.

Organic compounds of fluorine. Pt.7. Coll Cz Chem 30 no.3:
745-751 Mr '65.

1. Research Institute of Pharmacy and Biochemistry, Prague.
Submitted February 25, 1964.

CZECHOSLOVAKIA

KUTA, V.; HACH, V.; KAKAC, B.; KOLINSKY, J.

Leciva, Dolni Mechoupy and Research Institute for
Pharmacy and Biochemistry - (for all).

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3767-3771.

"Synthesis of (\pm)-4-methyllobeline."

(9)

CZECHOSLOVAKIA

BUDLICKY, H; KAKAC, B

Research Institute for Pharmacy and Biochemistry,
Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1101-1112

"Organic compounds of fluorine. Part 10: The synthesis
of α -fluoronorleucine, α -hydroxynorleucine, allcyclic pro-
line, ω -hydroxyisoleucine, and β -methylproline."

KAKAS, J., dr.

Joint conference arranged by the Hungarian Hydrological Society and the Hungarian Meteorological Society. Idojaras 66 no.3:192 My-Je '62.

1. Szerkeszto, "Idojaras".

July 1940. 1. Geographical information in tables and charts. Attention is called to a difficult aspect of the Comptians on road directions in Hungary. Subject: Hungary. a. Map prepared by
2. Topographic effects. 3. Hungary. - G.

AE

KAKAS, J.

"Visit by Tu Chang Wang, Chinese Professor of Meteorology to the Hungarian Institute of Meteorology." p. 317, (IDOJARAS, Vol. 57, no. 5, Sept./Oct. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

KAKAS, J.

"The Hungarian Geographical Society is 80 Years Old." p. 319, (IDOJARAS, Vol. 57, no. 5, Sept./Oct. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

KAKAS, J

Bela Bell's A talajtól a legkor hatalmáig (From the Ground to the Limits of the Atmosphere); a book review. p. 122.

IDOJARAS Vol. 58, no. 2, Mar. / Apr. 1954

Budapest, Hungary

Sol. EAST EUROPEAN ACCESSIONS LIST VOL. 5, no. 7, July 1956

KAKAS, J.

Climate Atlas of German Democratic Republic; a book review. p. 124.

IDOJARAS VOL. 58, no. 2, Mar./Apr. 1954

Budapest, Hungary

so. EAST EUROPEAN ACCESSIONS LIST VOL. 5, no. ?, July 1956

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4

AF(45) 002386

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

KAKAS, J.

The 1953 March drought in Hungary. p. 153.
IDOJARAS. Budapest: Vol. 59, no. 3, May/June 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2,
February 1956

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619920019-4"

KAKAS, J.

Visit of the director of the Hungarian Meteorologic Institute to the
Soviet Union. p. 305

Vol. 59, no. 5. Sept./Oct. 1955
IDOJARAS
Budapest

Source: Monthly list of East European Accessions, (EEAL), LC,
Vol. 5, no. 3, March 1956

KAKAS, J.

The First Hungarian Geographical Congress. p. 314

Vol. 59, no. 5, Sept./Oct. 1955
IDOJARAS
Budapest

Source: Monthly list of East European Accessions, (EEAL), IC,
Vol. 5, no. 3, March 1956

KAKAS, J. ;~~SECRET~~;xxx

Absolute maximum of 24-hour rainfall in Hungary. p. 344. IDOJARAS. (Meteoreologiai Intezet es Magyar Meteorologial Tarsasag) Budapest. Vol. 59, no. 6, Nov./Dec. 1955

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 6, June 1956

KAKAS, J. ; MEZOSI, M.

Investigation of our wind conditions and national power economy. p. 350.
(Idojaras, Vol. 60, no. 6, Nov./Dec. 1956, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, July 1957, Unclassified